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PTO/SB/05 (11-00)

Approved for use through 10/31/2002, OMB 0651-0032

Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No	18994-07
First Inventor	Gert Lynge Nielsen
Title	LOW PHASE NOISE FREQUENCY CONVERTER
Express Mail Label No	EL752183498US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2. ☒ Application claims small entity status  
See 37 CFR 1.27
3. ☒ Specification [Total Pages 36]  
(Preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure

☒ Drawing(s) (35 USC 113) [Total Sheets 7]4. ☒ Oath or Declaration [Total Pages 2]

- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
- i. ☐ DELETION OF INVENTOR(S)  
Delete statement attached deleting inventor(s)  
named in the prior application. see 37 CFR  
1.63(d)(2) and 1.33(b)

6. ☐ Application Data Sheet See 37 CFR 1.76

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.        /       

Prior application information

Examiner       Group/Art Unit       

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

<input type="checkbox"/> Customer Number or Bar Code Label		(Insert Custom No. or Attach bar code label here)		<input checked="" type="checkbox"/> Correspondence address below	
Name	John S. Beulick				
Address	Armstrong Teasdale LLP				
	One Metropolitan Sq., Suite 2600				
City	St Louis	State	Missouri	Zip Code	63102
Country	US	Telephone	(314) 621-5070	Fax	(314) 621-5065

Name (Print/type)	Alan L. Cassel	Registration No. (Attorney/Agent)	35,842
Signature	<i>Alan Cassel</i>	Date	July 5, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Office, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

PTO  
09-899430  
1046 U.S. PTO

07/15/01

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**FEE TRANSMITTAL**  
**for FY 2001**

Patent fees are subject to annual revision

**Complete if Known**

<b>Application Number</b>	
<b>Filing Date</b>	
<b>First Named Inventor</b>	Gert Lynge Nielsen
<b>Group Art Unit</b>	
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	18894-07

**TOTAL AMOUNT OF PAYMENT** (\$) 395.00**METHOD OF PAYMENT (check one)**1 ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to

Deposit Account Number 01-2384

Deposit Account Name

☒ Charge Any Additional Fee Required

Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status

See 37 CFR 1.16 and 1.17

2. ☐ Payment Enclosed☐ Check ☐ Credit Card ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility Filing Fee	355.00
105	320	205	160	Design Filing Fee	
107	490	207	245	Plant Filing Fee	
108	710	208	355	Reissue filing Fee	
114	150	214	75	Provisional Filing Fee	
SUBTOTAL (1)					355.00

**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee From Below	Fee Paid
20	-20**	x 9.00	=
4	-3*	x 40.00	= 40.00
Multiple Dependent		x	=

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

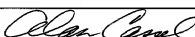
40.00

\*\*or number previously paid, if greater, For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge-late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2520	147	2520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1390	218	695	Extension for reply within fourth month	
128	1890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1510	138	1510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1240	241	620	Petition to revive - unintentional	
142	1240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Sheet	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after a final rejection (37 CFR 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify)					
*Reduced by Basic Filing Fee Paid					
SUBTOTAL (3)					

**SUBMITTED BY**

<b>Name (Print/Type)</b>	Alan L. Cassel	<b>Registration No. (Attorney/Agent)</b>	35,842	<b>Complete (if applicable)</b>	
<b>Signature</b>		<b>Telephone</b>	314-621-5070	<b>Date</b>	July 5, 2001

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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CERTIFICATE OF MAILING BY EXPRESS MAIL TO  
THE COMMISSIONER OF PATENTS AND TRADEMARKS

Express Mail mailing label number: EL752183498US

Date of Mailing: July 5, 2001

I certify that the attached complete utility patent application of **GERT LYNGE NIELSEN** for **LOW PHASE NOISE FREQUENCY CONVERTER**, which claims the benefit of U.S. Provisional Application No. 60/216,197 filed July 6, 2000, and U.S. Provisional Application No. 60/230,675 filed September 7, 2000, including:

- Utility Patent Application Transmittal (1 pg.)
- Fee Transmittal (1 pg., in duplicate)
- Application: Specification (29 pgs.); Claims (6 pgs.); and Abstract (1 pg.)
- Seven (7) sheets of drawings
- Preliminary Amendment ( 2 pgs.)
- Declaration and Power of Attorney (2 pgs.)
- Assignment (3 pgs.); Recordation Form Cover Sheet (1 pg., in duplicate)
- Return post card

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to Box PATENT APPLICATION, Assistant Commissioner for Patents, Washington, D.C. 20231.



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